

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00629_2 ~ C1216XT-50LXXK-NDEX-TCY-GLXXMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00629_2_M-50L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 9/20/2017

[UPDATE] 4/5/2018

[LUMCAT] C1216XT-50L-xxK-ND-EX-TCY-GL

[LUMINAIRE] Nom. 12" Diam. x 16" H. Accent Biaxial Adjustable Downlight Cylinder

[OTHER] Internal Reflector, Narrow Beam

[OTHER] Clear Glass Lens, Flush with Lower Trim

[OTHER] 20.3 Degree Beam Angle

[OTHER] Aimed at 0 Degrees (Nadir)

[LAMPCAT] N/A, 19mm LES

[LAMP] N/A, 83 CRI

[OTHER] Total Luminaire Watts is approximate

[OTHER] LEDXT lumen output is the same for all available CCT's

[OTHER] This report prepared by Spectrum Lighting, scaled from 30L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4657
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	52
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.36
Spacing Criterion (90-270)	0.36
Spacing Criterion (Diagonal)	0.38
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.44 ft (Diameter)
Luminous Width (90-270)	0.44 ft (Diameter)
Luminous Height	0.00 ft

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00629_2 ~ C1216XT-50LXXK-NDEX-TCY-GLXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	64720	68627	63709
55	35344	34627	35389
65	6052	6960	6972
75	9984	9223	8272
85	7508	9752	9945

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0	13913.174	13913.174	13913.174	13913.174	13913.174	13913.174	13913.174	13913.174	13913.174	13913.174
5	11989.366	12336.494	12148.168	12298.096	11968.379	11621.199	11682.203	11144.430	11305.174	10943.647
10	7431.026	7879.651	7611.852	7824.567	7335.500	6949.543	6967.800	6384.455	6535.045	6136.909
15	3779.943	4051.515	3859.410	3967.463	3634.479	3414.745	3393.542	3087.542	3149.562	2954.779
20	2217.744	2305.818	2221.141	2245.377	2100.028	2041.142	2030.243	1962.139	1974.872	1935.330
25	1840.460	1860.127	1832.098	1822.479	1775.723	1752.479	1758.202	1759.515	1766.717	1771.073
30	1720.996	1736.279	1716.847	1704.959	1673.605	1652.819	1659.008	1653.689	1666.278	1657.713
35	1554.974	1581.376	1559.422	1559.537	1524.817	1491.732	1488.423	1440.350	1445.467	1395.612
40	1139.916	1211.149	1184.917	1200.158	1125.538	1038.214	1024.288	918.775	912.049	842.592
45	652.971	689.995	692.387	668.937	642.769	570.636	563.058	508.798	489.178	460.805
50	465.056	469.684	459.769	459.854	446.224	440.588	449.368	434.239	407.957	398.396
55	289.255	302.179	283.385	302.260	289.621	277.902	306.823	283.415	285.589	257.648
60	90.801	98.551	93.809	100.208	98.245	93.444	108.793	99.897	106.560	97.585
65	36.492	38.521	41.970	39.503	42.040	48.541	58.575	53.777	56.690	50.840
70	35.499	42.143	35.994	34.165	36.436	44.804	46.411	54.466	51.617	56.406
75	36.869	28.302	34.060	30.543	30.546	47.213	53.722	51.729	57.607	51.007
80	19.814	26.339	24.513	24.672	24.443	46.624	40.606	44.304	47.244	43.037
85	9.337	11.362	12.127	13.521	12.367	32.843	25.562	25.835	28.716	26.925
90	3.979	1.164	3.082	1.417	2.129	14.806	6.956	17.475	6.761	20.051
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles **Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0	13913.174	13913.174	13913.174	13913.174	13913.174	13913.174	13913.174
5	11194.427	10941.643	11272.029	11682.576	11612.416	12094.691	11989.366
10	6417.032	6175.915	6560.847	7015.361	6975.597	7541.405	7431.026
15	3090.048	2984.555	3200.628	3481.483	3499.281	3839.935	3779.943
20	1981.880	1948.658	2025.830	2101.060	2117.563	2239.068	2217.744
25	1784.700	1778.851	1792.103	1815.580	1815.488	1842.090	1840.460
30	1675.437	1664.251	1686.357	1709.874	1710.675	1729.072	1720.996
35	1435.457	1399.407	1474.350	1506.101	1513.018	1561.751	1554.974
40	876.457	854.859	917.987	1002.687	1023.550	1135.450	1139.916
45	487.989	488.658	492.055	552.174	569.109	638.593	652.971

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50	427.274	420.027	446.884	434.372	444.731	464.786	465.056
55	279.561	255.711	279.529	284.269	274.543	297.711	289.255
60	95.652	90.993	83.737	94.684	85.009	94.814	90.801
65	50.165	55.003	44.444	39.805	44.512	40.591	36.492
70	47.506	49.508	47.838	27.712	29.499	30.604	35.499
75	50.373	51.930	48.378	32.970	36.667	33.222	36.869
80	44.687	44.297	45.602	22.218	23.446	21.378	19.814
85	25.353	25.025	30.486	7.100	8.817	10.120	9.337
90	7.625	14.386	14.976	2.145	2.327	0.889	3.979
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	2048.92	N.A.	44.00
0-30	2897.98	N.A.	62.20
0-40	3787.56	N.A.	81.30
0-60	4534.36	N.A.	97.40
0-80	4633.62	N.A.	99.50
0-90	4655.32	N.A.	100.00
10-90	3683.62	N.A.	79.10
20-40	1738.63	N.A.	37.30
20-50	2239.68	N.A.	48.10
40-70	803.71	N.A.	17.30
60-80	99.26	N.A.	2.10
70-80	42.36	N.A.	0.90
80-90	21.70	N.A.	0.50
90-110	2.06	N.A.	0.00
90-120	2.06	N.A.	0.00
90-130	2.06	N.A.	0.00
90-150	2.06	N.A.	0.00
90-180	2.06	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4657.38	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	971.70
10-20	1077.22
20-30	849.06
30-40	889.57
40-50	501.05
50-60	245.76
60-70	56.90
70-80	42.36
80-90	21.70
90-100	2.06
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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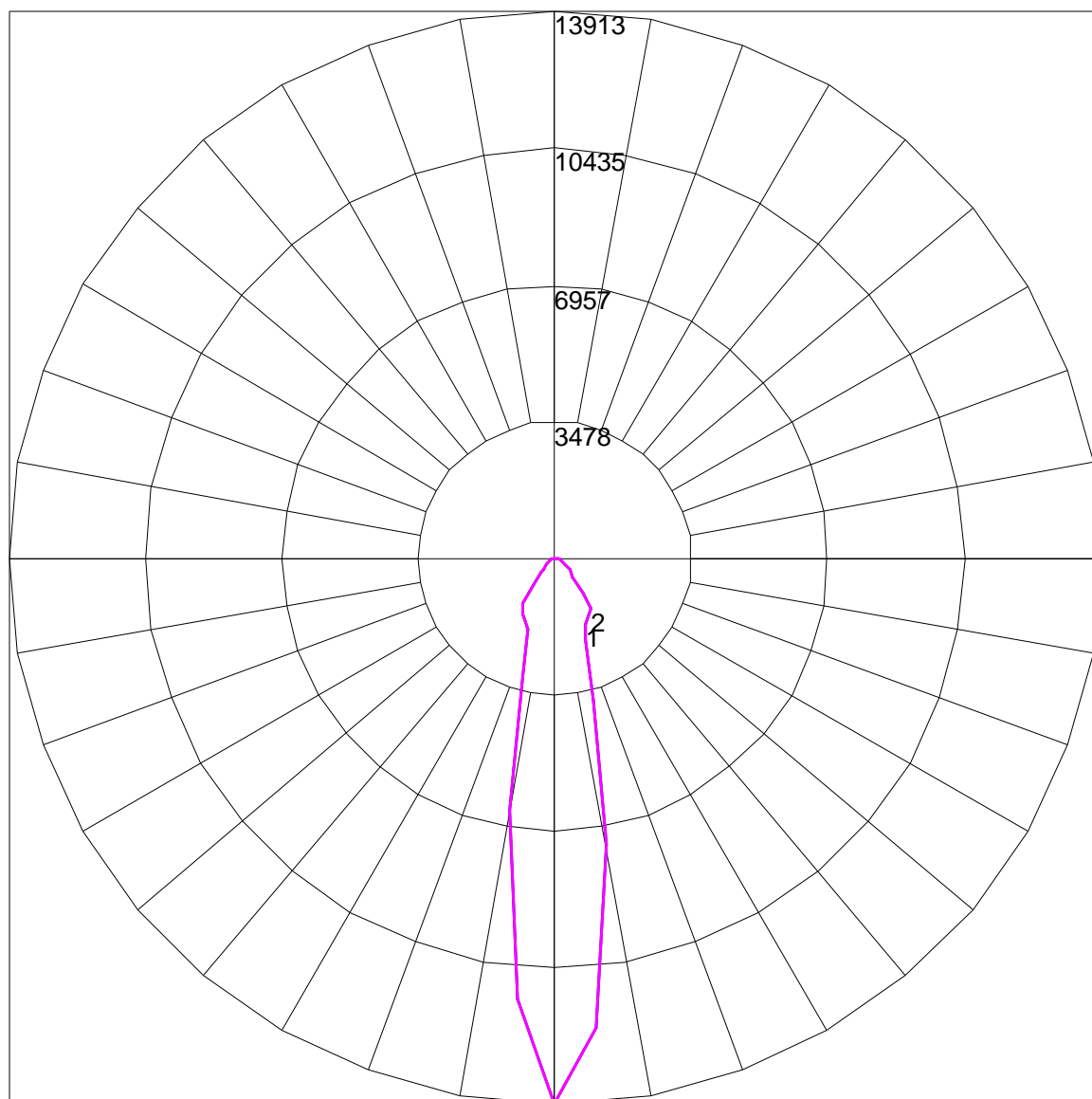
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	95	94	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85
3	101	95	90	85	99	93	89	85	91	87	83	88	85	82	86	83	81	79
4	96	88	83	78	94	87	82	78	85	80	77	83	79	76	81	78	75	73
5	91	83	77	72	90	82	76	72	80	75	71	78	74	71	77	73	70	69
6	87	78	72	67	85	77	71	67	76	70	67	74	70	66	73	69	66	64
7	83	73	67	63	82	73	67	63	72	66	63	70	66	62	69	65	62	61
8	79	70	64	59	78	69	63	59	68	63	59	67	62	59	66	62	59	57
9	76	66	60	56	75	66	60	56	65	60	56	64	59	56	63	59	56	54
10	73	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	52

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POLAR GRAPH



Maximum Candela = 13913.174 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (0 - 180)